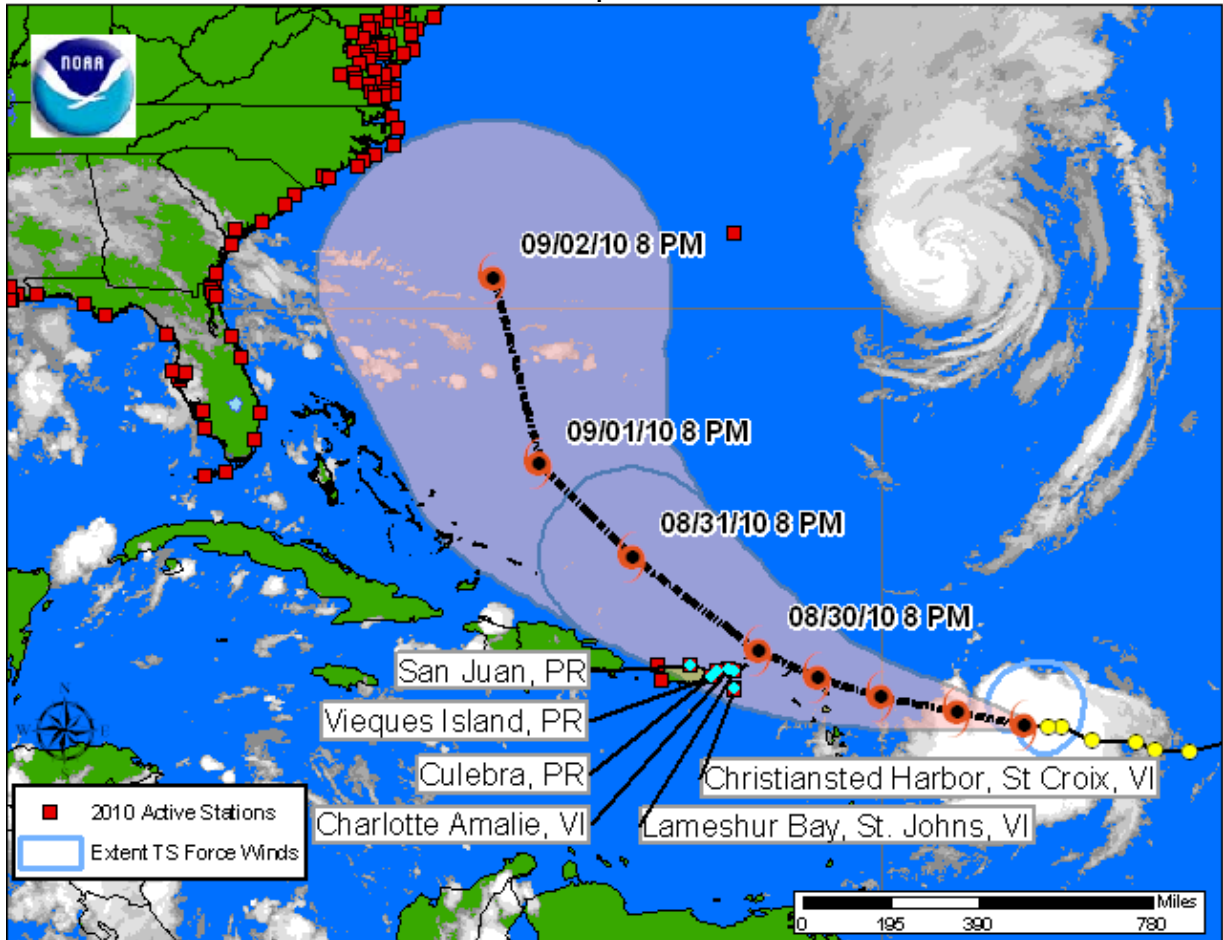




Tropical Storm EARL QuickLook
Posted: 01:00 AST 08/29/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/29/2010 00:45 EDT, water levels across the U.S. Virgin Islands and Puerto Rico are about 0.5 feet above predictions.

Wind speeds are generally ranging from 5 to 10 kts with some gusts up to 15 kts recorded over the past 6 hours. Barometric pressure is falling across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

CHRISTIANSTED HARBOR, ST CROIX, VI Next predicted high tides are 0.59 ft (0.18 m) at 08/29/2010 12:13 AST and 0.48 ft (0.15 m) at 08/29/2010 22:07 AST.

LAMESHUR BAY, ST. JOHN, VI Next predicted high tides are 0.66 ft (0.20 m) at 08/29/2010

13:20 AST and 0.45 ft (0.14 m) at 08/30/2010 00:14 AST.

CHARLOTTE AMALIE, VI Next predicted high tides are 0.78 ft (0.24 m) at 08/29/2010 13:30 AST and 0.82 ft (0.25 m) at 08/30/2010 14:50 AST.

CULEBRA, PR Next predicted high tides are 0.90 ft (0.27 m) at 08/29/2010 13:10 AST and 0.70 ft (0.21 m) at 08/30/2010 00:22 AST.

ESPERANZA, VIEQUES ISLAND, PR Next predicted high tides are 0.53 ft (0.16 m) at 08/29/2010 12:08 AST and 0.48 ft (0.15 m) at 08/29/2010 21:24 AST.

SAN JUAN, PR Next predicted high tides are 1.24 ft (0.38 m) at 08/29/2010 00:03 AST and 1.56 ft (0.48 m) at 08/29/2010 13:11 AST.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst:WFR

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

**TROPICAL STORM EARL ADVISORY NUMBER 15
1100 PM AST SAT AUG 28 2010**

...EARL MOVING WESTWARD TOWARD THE LEEWARD ISLANDS...NEW WATCHES AND WARNINGS ISSUED...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

A HURRICANE WATCH HAS BEEN ISSUED FOR PUERTO RICO AND THE U. S. VIRGIN ISLANDS...INCLUDING THE ISLANDS OF CULEBRA AND VIEQUES.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

- * U.S. VIRGIN ISLANDS**
- * PUERTO RICO INCLUDING THE ISLANDS OF CULEBRA AND VIEQUES**

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 PM AST...THE CENTER OF TROPICAL STORM EARL WAS LOCATED ABOUT 520 MI

E OF THE NORTHERN LEEWARD ISLANDS. EARL IS MOVING TOWARD THE WEST NEAR 20 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE WITH A GRADUAL DECREASE IN FORWARD SPEED ON SUNDAY. A GRADUAL TURN TOWARD THE WEST-NORTHWEST IS EXPECTED SUNDAY NIGHT AND MONDAY. ON THE FORECAST TRACK...THE CENTER OF EARL COULD PASS NEAR OR OVER THE NORTHERN LEEWARD ISLANDS SUNDAY NIGHT OR MONDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 65 MPH WITH HIGHER GUSTS. STRENGTHENING IS FORECAST DURING THE NEXT 48 HOURS AND EARL IS EXPECTED TO BECOME A HURRICANE ON SUNDAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 160 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 989 MB.

HAZARDS AFFECTING LAND

WIND...HURRICANE CONDITIONS ARE EXPECTED OVER THE NORTHERN LEEWARD ISLANDS BY SUNDAY NIGHT. HURRICANE CONDITIONS MAY SPREAD OVER THE VIRGIN ISLANDS AND PUERTO RICO MONDAY AND MONDAY NIGHT.

STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS...ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES...NEAR THE CENTER OF EARL.

RAINFALL...EARL IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 3 TO 5 INCHES OVER MUCH OF THE NORTHERN LEEWARD ISLANDS...WITH POSSIBLE MAXIMUM ISOLATED AMOUNTS OF 8 INCHES.

NEXT ADVISORY

**NEXT INTERMEDIATE ADVISORY...200 AM AST.
NEXT COMPLETE ADVISORY...500 AM AST.**

FORECASTER BEVEN

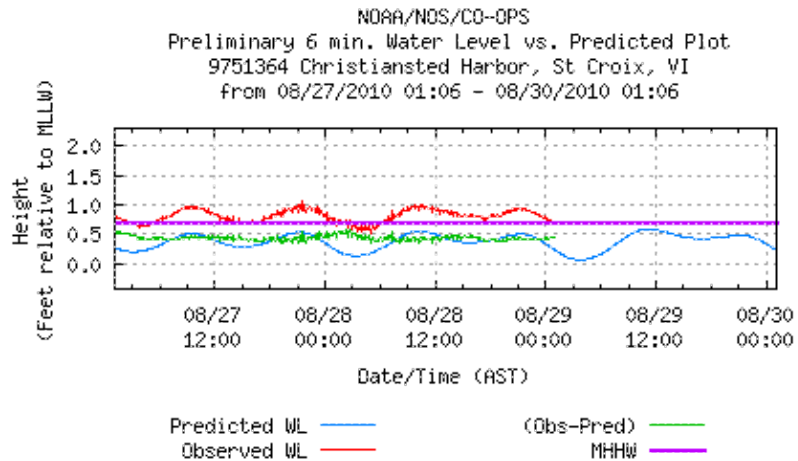
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Christiansted Harbor, St Croix - Water Level](#), [Christiansted Harbor, St Croix - Winds](#), [Christiansted Harbor, St Croix - Barometric](#), [Christiansted Harbor, St Croix - Air/Water Temp](#), [Lameshur Bay, St. John - Water Level](#), [Lameshur Bay, St. John - Air/Water Temp](#), [Charlotte Amalie - Water Level](#), [Charlotte Amalie - Winds](#), [Charlotte Amalie - Barometric](#), [Charlotte Amalie - Air/Water Temp](#), [Culebra - Water Level](#), [Culebra - Winds](#), [Culebra - Barometric](#), [Culebra - Air/Water Temp](#), [Esperanza, Vieques Island - Water Level](#), [Esperanza, Vieques Island - Winds](#), [Esperanza, Vieques](#)

Tropical Storm EARL QuickLook, POSTED 01:00 AST 08/29/2010

Island - Barometric, Esperanza, Vieques Island - Air/Water Temp, San Juan - Water Level, San Juan - Winds, San Juan
- Barometric, San Juan - Air/Water Temp,

Christiansted Harbor, St Croix, VI - [Return to List](#)

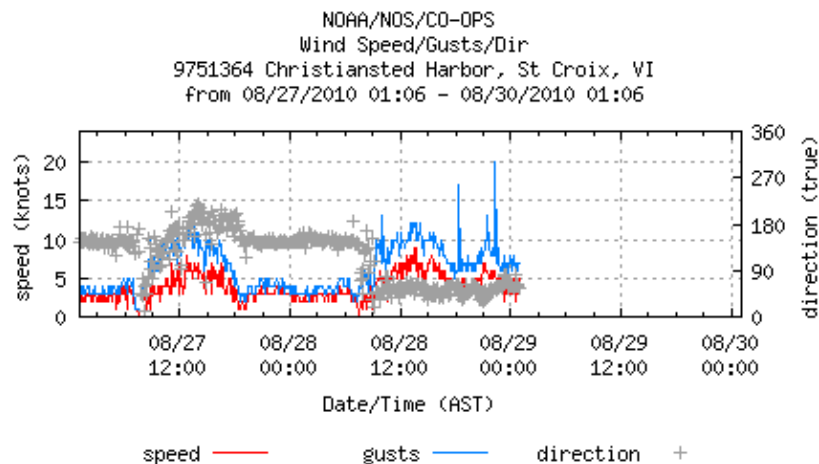


Last Observed Sample: 08/29/2010 00:54 (AST)

Relative to **MLLW**: **Observed: 0.69 ft.** **Predicted: 0.24 ft.** **Residual: 0.45 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.73 ft. above **MHHW**

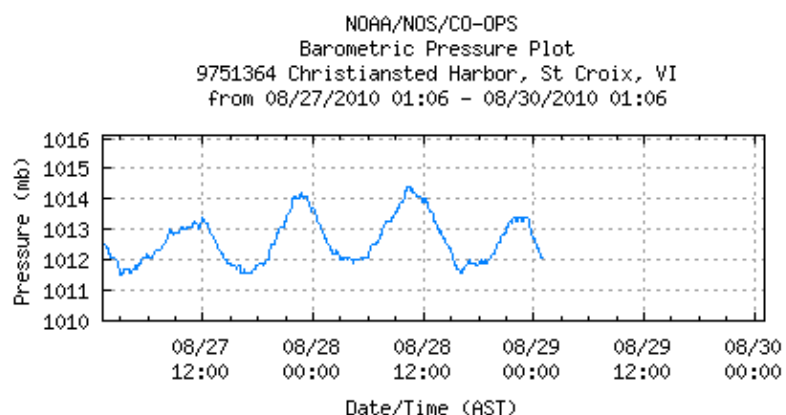
Christiansted Harbor, St Croix, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Wind Speed: 5 knots **Gusts: 7 knots** **Direction: 054° T**

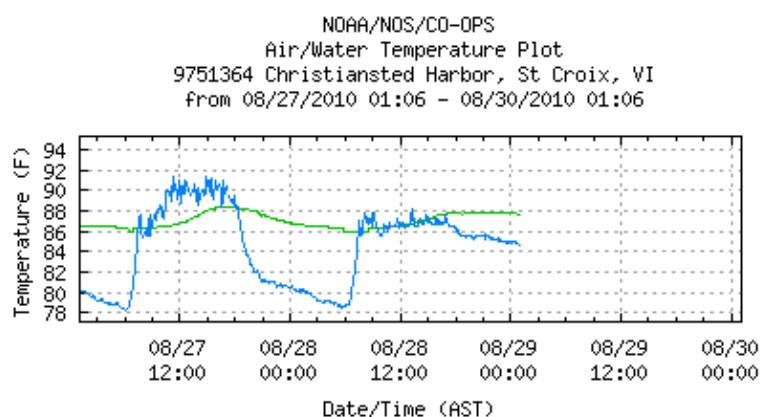
Christiansted Harbor, St Croix, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Barometric Pressure: 1012.1 mb

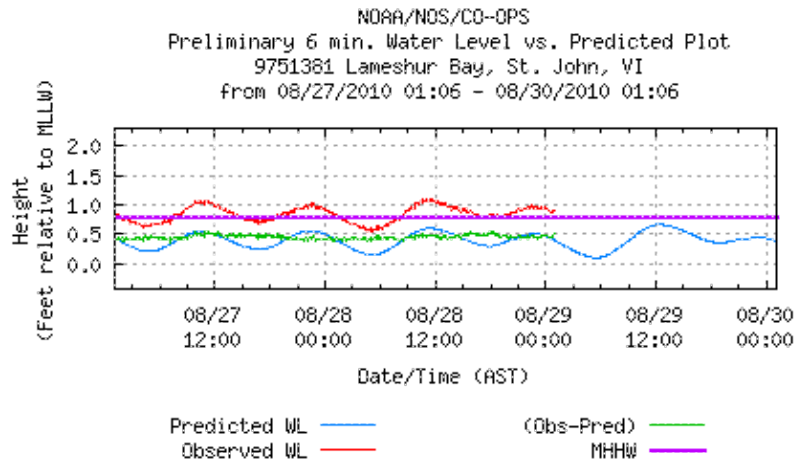
Christiansted Harbor, St Croix, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Water Temperature: 87.6° F Air Temperature: 84.6° F

Lameshur Bay, St. John, VI - [Return to List](#)

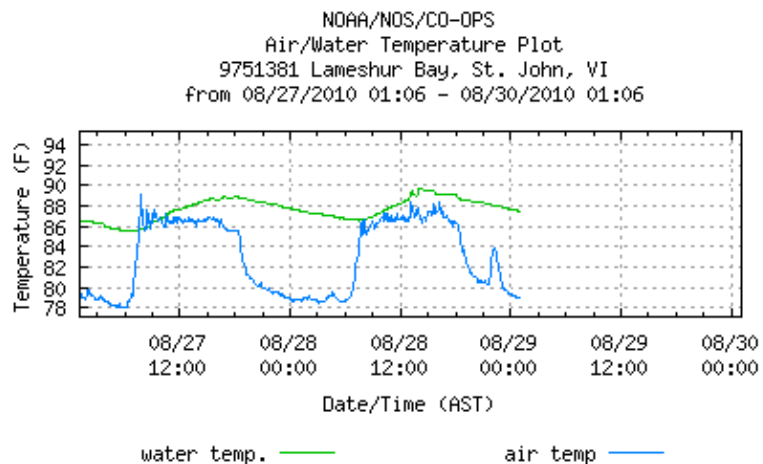


Last Observed Sample: 08/29/2010 00:54 (AST)

Relative to **MLLW**: **Observed: 0.90 ft.** **Predicted: 0.40 ft.** **Residual: 0.50 ft.**

Historical Maximum Water Level: Nov 6 2006, 0.83 ft. above **MHHW**

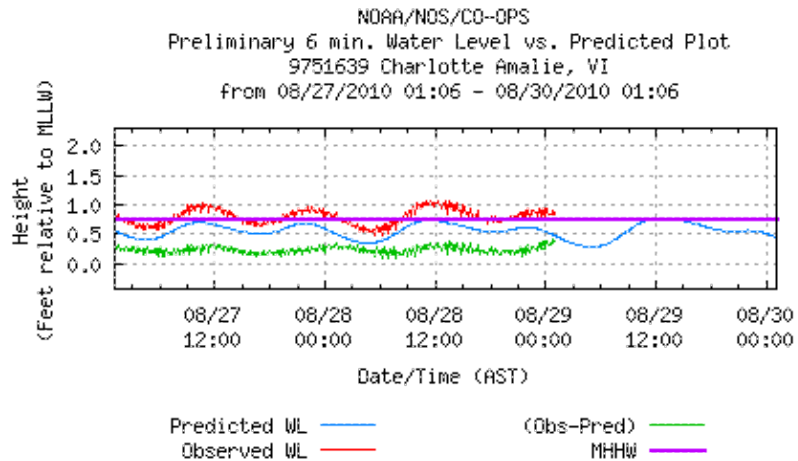
Lameshur Bay, St. John, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Water Temperature: 87.4° F **Air Temperature: 79.0° F**

Charlotte Amalie, VI - [Return to List](#)

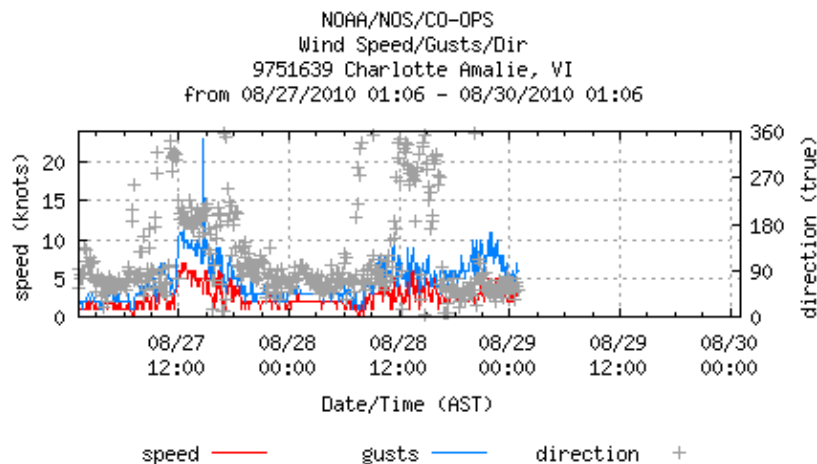


Last Observed Sample: 08/29/2010 00:54 (AST)

Relative to **MLLW**: **Observed: 0.85 ft. Predicted: 0.48 ft. Residual: 0.37 ft.**

Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above **MHHW**

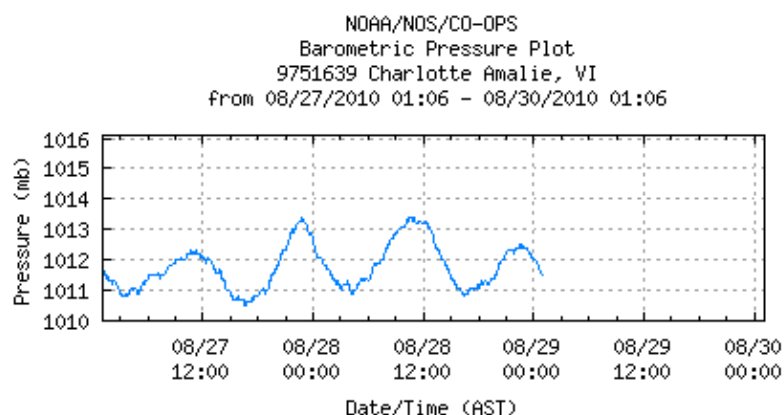
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Wind Speed: 3 knots Gusts: 6 knots Direction: 051° T

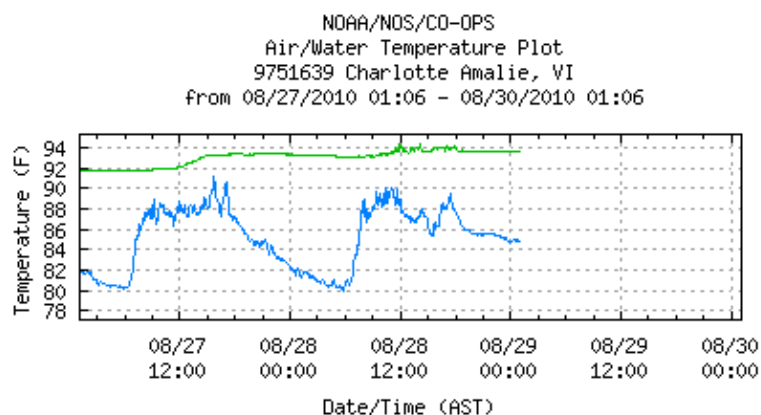
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Barometric Pressure: 1011.5 mb

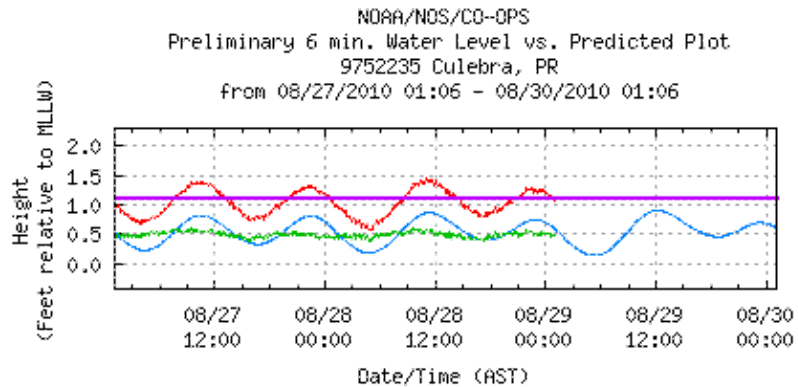
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Water Temperature: 93.6° F Air Temperature: 84.7° F

Culebra, PR - [Return to List](#)

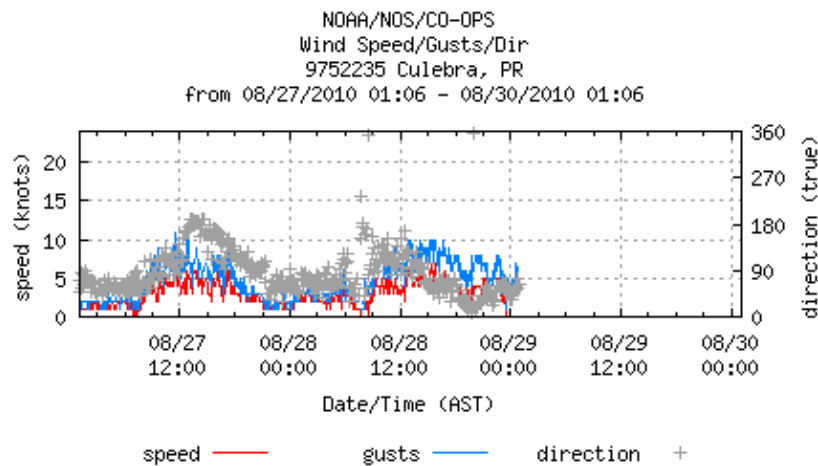


Last Observed Sample: 08/29/2010 00:54 (AST)

Relative to **MLLW**: **Observed: 1.07 ft. Predicted: 0.60 ft. Residual: 0.47 ft.**

Historical Maximum Water Level: Nov 6 2006, 0.86 ft. above **MHHW**

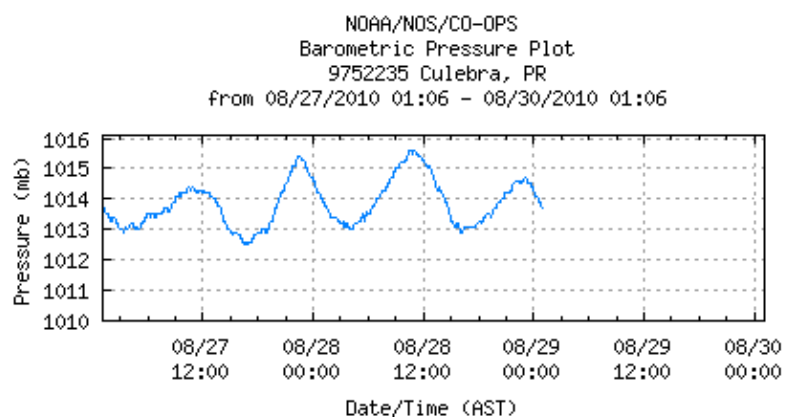
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Wind Speed: 3 knots Gusts: 5 knots Direction: 063° T

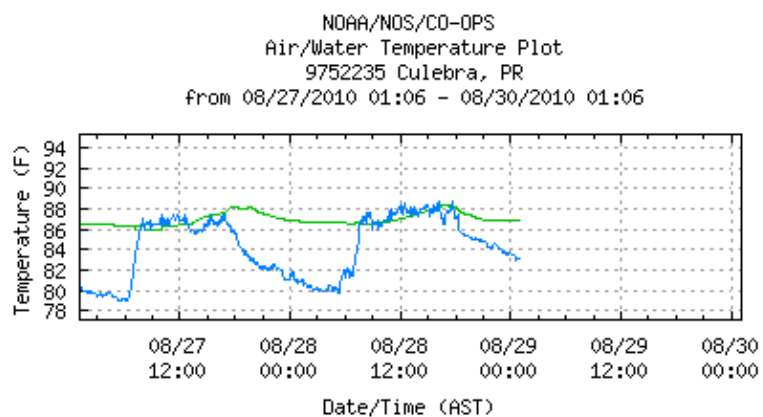
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Barometric Pressure: 1013.7 mb

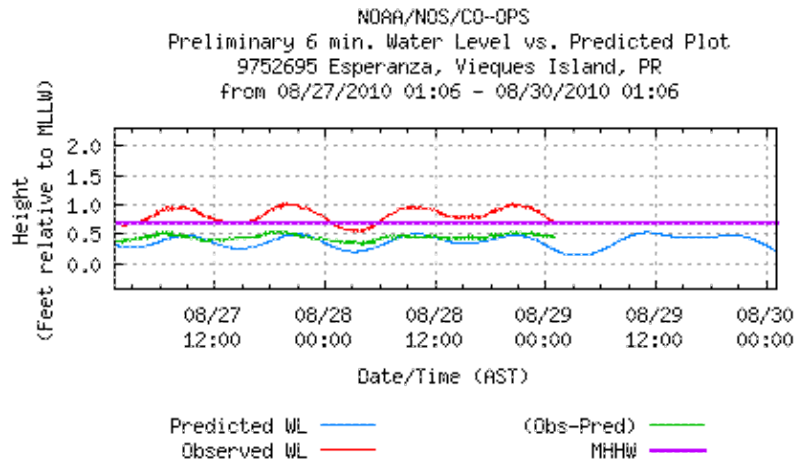
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Water Temperature: 86.9° F Air Temperature: 83.1° F

Esperanza, Vieques Island, PR - [Return to List](#)

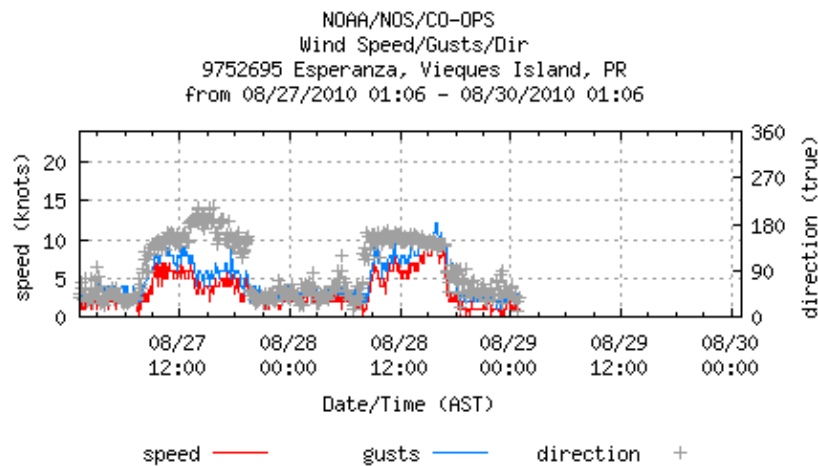


Last Observed Sample: 08/29/2010 00:54 (AST)

Relative to **MLLW**: **Observed: 0.68 ft.** **Predicted: 0.24 ft.** **Residual: 0.44 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above **MHHW**

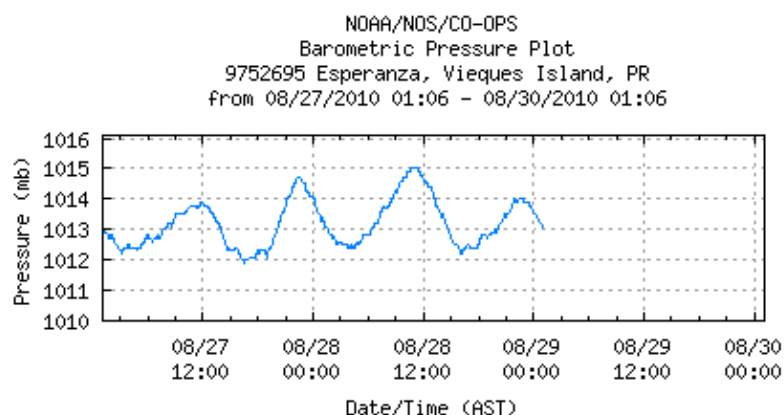
Esperanza, Vieques Island, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Wind Speed: 1 knots **Gusts: 2 knots** **Direction: 038° T**

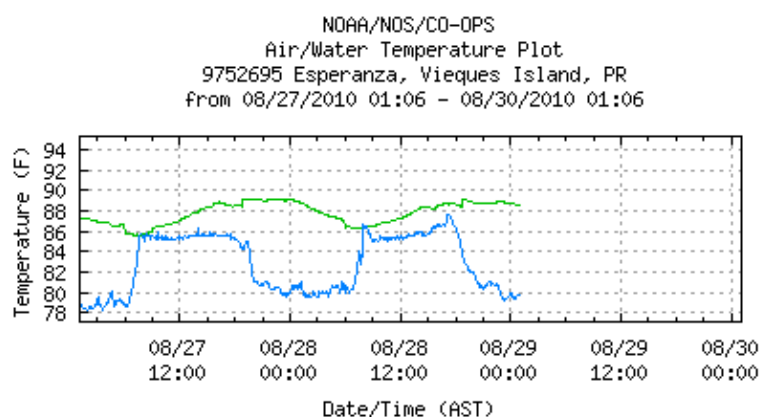
Esperanza, Vieques Island, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Barometric Pressure: 1013.1 mb

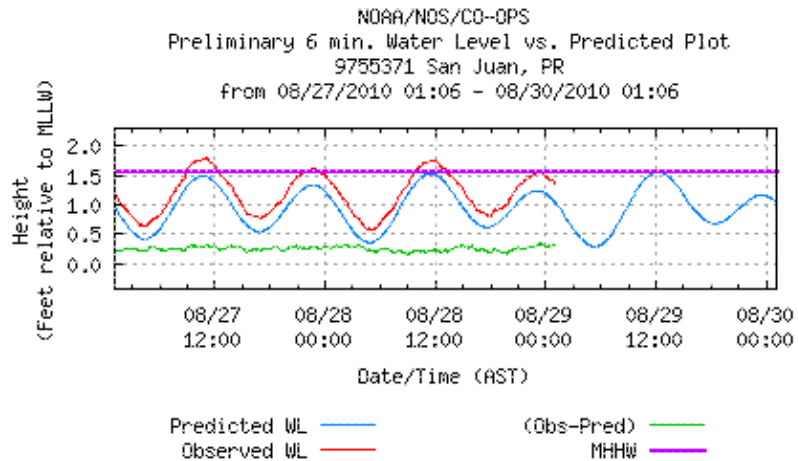
Esperanza, Vieques Island, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 00:54 (AST)

Water Temperature: 88.5° F Air Temperature: 79.7° F

San Juan, PR - [Return to List](#)

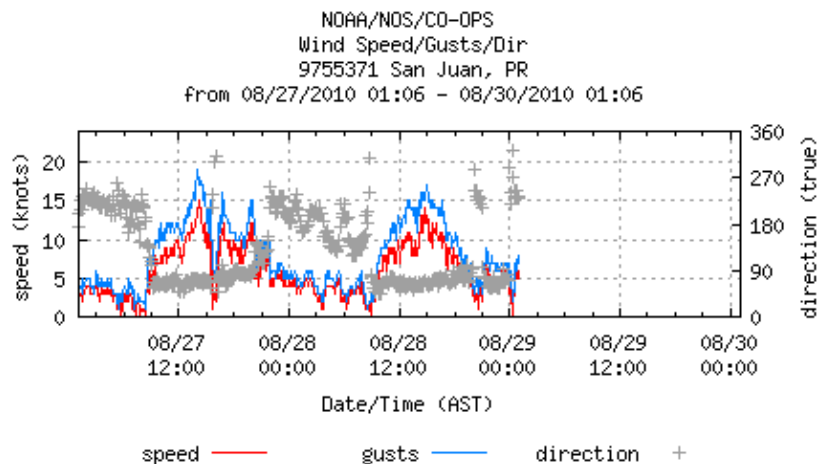


Last Observed Sample: 08/29/2010 01:00 (AST)

Relative to **MLLW**: **Observed: 1.37 ft. Predicted: 1.04 ft. Residual: 0.33 ft.**

Historical Maximum Water Level: Sep 21 1998, 1.21 ft. above **MHHW**

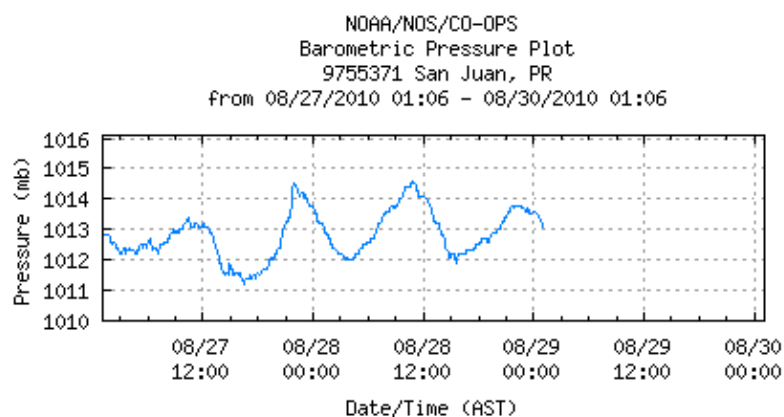
San Juan, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 01:00 (AST)

Wind Speed: 5 knots Gusts: 7 knots Direction: 235° T

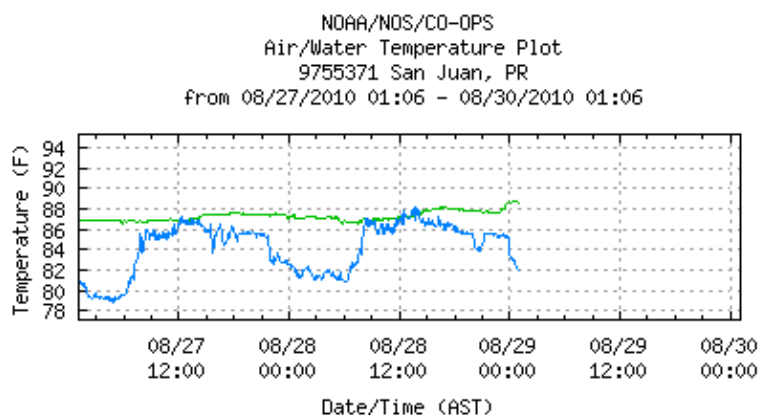
San Juan, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 01:00 (AST)

Barometric Pressure: 1013.1 mb

San Juan, PR - [Return to List](#)



Last Observed Sample: 08/29/2010 01:00 (AST)

Water Temperature: 88.5° F Air Temperature: 82.0° F

Tropical Storm EARL QuickLook, POSTED 01:00 AST 08/29/2010

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce